

ALPHA MAGNETIC SPECTROMETER (AMS) ACCEPTANCE DATA PACKAGE

for

AMS COLLABORATION HARDWARE

Acceptance Data Effective through [Date]

Part Name: AMS02- RICH Subsystem/Detector: ERPD "RICH LOW

VOLTAGE"

Part Number: ERPD 1&2 Serial Number: ---

ADP Tracking Number:

CIEMAT, Avd. Complutense, 22 - 28040 (Madrid), Telf: 91-346.60.00/01, Fax: 91-346.60.05 (central)

ALPHA MAGNETIC SPECTROMETER (AMS)

ACCEPTANCE DATA PACKAGE

FOR

PART NAME:

AMS02- ERPD RICH

PART NUMBER:

ERPD 1&2

SERIAL NUMBER:

ALPHA MAGNETIC SPECTROMETER (AMS) MAJOR COMPONENT PRE-INTEGRATION CHECKLIST

The following checklist must be completed prior to integration of any of the major AMS subsystems of NASA provided Payload Integration Hardware. All open issues must be documented and disposition approved by all parties. INTEGRATION REVIEW ITEMS All integration plans and procedures have been completed and approved.	
NASA provided Payload Integration Hardware. All open issues must be documented and dispositio approved by all parties. INTEGRATION REVIEW ITEMS	
All hardware, including interface fasteners, is available for integration.	
Mechanical and electrical interfaces have been verified against the interface control documen	ntation.
All applicable functional, unit-level, subsystem, and qualification testing has been conducted s	successfully.
Integration facilities, including clean room, ground support equipment, handling fixtures, crane electrical test equipment are ready and available.	ies, and
Support personnel have been adequately trained and will be available at the integration facilit	ity.
Handling and safety requirements have been documented.	
All known system discrepancies have been identified and disposed in accordance with an agr plan.	jreed-upon
All previous design review success criteria and key issues have been satisfied in accordance agreed-upon plan.	with an
The quality control organization is ready to support the integration effort.	
Payload Integration and Test Manager Date	
Contractor/Supplier Quality Assurance Date	

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE INDEX PAGE

AMS	602 – ER	RPD RICH			ERPD	
		ITEM NA	AME	CI NO.	PART NUMBER	SERIAL NUMBER
			DOCUMENT	S INCLUDED IN THI	S DATA PACKAGE	
Υ	N	N/A	SECTION		INDEX	
X			I	HISTORICAL LOG	G/NOTES/COMMENTS	
			II	WAIVERS/DEVIA	TIONS	
			III	UNEXPLAINED A	NOMALIES REPORTED	
			IV	UNPLANNED/DEF	FERRED WORK REPORTE	D
			V	PREPLANNED/AS	SSIGNED WORK REPORTE	ED .
Χ			VI	IDENTIFICATION:	-AS-DESIGNED CONFIGUE	RATION
			VII	OPERATING TIME	E/CYCLE REPORTED	
			VIII	AGE SENSITIVE/	TIME ACTION ITEMS REPO	ORTED
			IX	NON-STANDARD	CALIBRATION DATA REP	ORTED
			X	REPAIR LIMITATI	ONS DATA REPORTED	
			XI	PRESSURE VESS	SEL DATA RECEIVED	
			XII	NONFLIGHT HAR	DWARE/TEMPORARY INS	TALLATIONS
			XVI	CERTIFICATIONS	RECEIVED	
			XVII	MSDS RECEIVED)	
			ACCEPT	ANCE DATA PACKA	GE APPROVAL	
					n successfully completed or a provided Payload Integration	
Payl	oad Inte	gration and	Test Manager		Date	
Exce 1. 2. 3.	eptions\F	Resolution F	Plan (No signature re	equired if there are no	exceptions)	
I agr	ee with	the list of ex	ceptions and agree	to implement the reso	olution plan as described abo	ove.
Expe	eriment I	ntegration a	and Test Manager		 Date	

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE HISTORICAL LOG / NOTES / COMMENTS

AMS02 - ERPD RICH **ERPD Item Name** Part Number **Serial Number MECHANICAL DOCUMENT** Incoming ERPD Material LIST ERPD Historical Record Log Sheet ERPD test Historical Record Log Sheet ERPD DCDC Assembly Historical Record Log Sheet ERPD Assembly Table fasteners ERPD **ERPD Screw Torque Record Sheet DCDC DIM and Mat control sheet** EDPD DCDC screw torque sheet **ERPD DCDC location** MAIN WALL LEFT dim control MAIN WALL RIGHT dim control Material certificates Walls top side TOP WALL dim control XPD side wall dim control Vibration test ERPD (QM) Vibration test ERPD 1&2 (FM) Vibration test ERPD 2 (FM)

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE

ELECTRONIC DOCUMENTS
EMI test ERPD (QM)
RICH_Cabling
EDPD DCDC inspection sheet
ERPD cable voltage drop
PHYSICAL DOCUMENT
THERMAL DOCUMENT
Termal Cliclyng (10 cicles)
TVT
Thermal cycling (5 cicles)

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE WAIVER DEVIATION / LISTING

	AMS02 – ERPD RICH	ERPE)			
	Item Name	Part Nur	nber	Serial Number		
Waiver / Deviation		Affected				
Number	Part Name		Part Number	Serial Number		

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE UNEXPLAINED ANOMOLIES RECORDS

AMS02 - E	RPD RICH	ERPD			
Item I	Name	Part Number	Serial Number		
Nonconformance		Affected			
Record Number	Part Name	Part Numb	er Serial Number		

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE UNPLANNED / DEFERRED WORK

AMS02 – ERPD RICH ERPD ---

Item	n Name	Part Number		Serial Number			
Dort Number or Specification	Serial	Description of Hanlanned / Deformed Work	Inspection Red	and Test / Retest quirements			
Part Number or Specification	Number	Description of Unplanned / Deferred Work	Test Procedures	Requirement Paragraph Numbe			

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE PREPLANNED / ASSIGNED WORK

AMS02 – ERPD RICH ERPD ---

Item Name		Part Number	Serial Number		
Authorizing Work Document Identification	Description of	Inspection an Requir	d Test / Retest ements		
Document Identification	Description of Preplanned / Assigned Work	Test Procedures	Requirement Paragraph Number		

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE

Level Current Dwg Rev orated (as Serial Number / Lot-Date Code F/ ent Ref WAD Notes us								As Designed			As Built			Reconciliation		
2 24-AMS-120.02.07 XPD Main Wall Left 24-AMS-120.02.07 B ECO-09 ECO-56 ECO-83 SECO-09 ECO-56 ECO-83 ECO-09 ECO-56 ECO-83 SECO-09 ECO-68 SECO-09 ECO-68 SECO-09 ECO-68 ECO-69 SECO-09 ECO-68 ECO-69 <td>Pa</td> <td></td> <td></td> <td>ure</td> <td>Part Number</td> <td>Requi</td> <td>Nomenclature</td> <td>Current Dwg Rev</td> <td>orated</td> <td>Rev (as applic</td> <td>Serial Number / Lot-Date Code</td> <td>E/ F/ L</td> <td>ent Ref</td> <td>WAD</td> <td>Notes</td> <td>Stat us O/C</td>	Pa			ure	Part Number	Requi	Nomenclature	Current Dwg Rev	orated	Rev (as applic	Serial Number / Lot-Date Code	E/ F/ L	ent Ref	WAD	Notes	Stat us O/C
2 24-AMS-120.03.07 XPD Main Wall Right 24-AMS-120.03.07 A ECO-00009 ECO-83 2 24-AMS-120.05.00 XPD Side Wall 24-AMS-120.05.00 2 24-AMS-120.04.07 XPD Top Wall 24-AMS-120.04.07 ECO-49 3 24-AMS-121.03.02 Frame Small 24-AMS-121.03.02 B ECO-29 ECO-68 ECO-69 3 24-AMS-121.03.03 Frame Medium 24-AMS-121.03.03 B ECO-29 ECO-68 ECO-69	1				24-AMS-120.00.07	2	ERPD ASSY	24-AMS-120.00.07		Α						
2 24-AMS-120.05.00 XPD Side Wall 24-AMS-120.05.00 ECO-49 2 24-AMS-121.03.02 XPD Top Wall 24-AMS-120.04.07 ECO-49 3 24-AMS-121.03.02 Frame Small 24-AMS-121.03.02 B ECO-29 ECO-68 ECO-69 3 24-AMS-121.03.03 Frame Medium 24-AMS-121.03.03 B ECO-29 ECO-68 ECO-69	2				24-AMS-120.02.07		XPD Main Wall Left	24-AMS-120.02.07		В	ECO-09 ECO-56 ECO-83					
2 24-AMS-120.04.07 XPD Top Wall 24-AMS-120.04.07 ECO-49 3 24-AMS-121.03.02 Frame Small 24-AMS-121.03.02 B ECO-29 ECO-68 ECO-69 3 24-AMS-121.03.03 Frame Medium 24-AMS-121.03.03 B ECO-29 ECO-68 ECO-69					24-AMS-120.03.07		XPD Main Wall Right	24-AMS-120.03.07		Α	ECO-00009 ECO-83					
3 24-AMS-121.03.02 Frame Small 24-AMS-121.03.02 B ECO-29 ECO-68 ECO-69 3 24-AMS-121.03.03 Frame Medium 24-AMS-121.03.03 B ECO-29 ECO-68 ECO-69					24-AMS-120.05.00		XPD Side Wall	24-AMS-120.05.00								
3 24-AMS-121.03.03 Frame Medium <u>24-AMS-121.03.03</u> B <u>ECO-29 ECO-68 ECO-69</u>	2				24-AMS-120.04.07		XPD Top Wall	24-AMS-120.04.07								
		3	3		24-AMS-121.03.02		Frame Small	24-AMS-121.03.02		В						
3 24-AMS-121.03.04 Frame Large 24-AMS-121.03.04 B ECO-29 ECO-68 ECO-69		3	3		24-AMS-121.03.03		Frame Medium	24-AMS-121.03.03		В	ECO-29 ECO-68 ECO-69					
		3	3		24-AMS-121.03.04		Frame Large	24-AMS-121.03.04		В	ECO-29 ECO-68 ECO-69					
										İ						

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE OPERATING TIME / CYCLE

AMS02 – ERPD RICH ERPD --
Item Name Part Number Serial Number

Time / Cycle Part Name Part Number Part Number Part Number Part Name Part Number Par			Part Number Serial Number						Number		
Port Name Bort Number Allowable Remaining Allowable Remaining Remaining	Time / Cycle		0 1				Cycle				
Tarrivance		Part Number	Serial	Allowable					Allowable	Remaining	
	i ait ivaille	T art Number	Number	Hrs.	Min.	Sec.	Hrs.	Min.	Sec.		

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE AGE-SENSITIVE / TIME-ACTION ITEMS

AMS02 – ERPD RICH		ERPD					
Item Name				Part Number	S	Serial Number	
Part Name	Part Number	Serial Number	Birth Date	Action Due Date	Required Action	Last Operational and / or Servicing Date	Operational and / or Servicing Due Date

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE NONSTANDARD CALIBRATION RECORD

	AMS02 - E	RPD RICH		ER	RPD				
	Item I	Name		Part N	lumber	Se	rial Number		
PART NAME				PART NUMI	BER				
SERIAL NUMBE	R			MEAS. NUMBER					
RANGE (ENG UNITS) EXCITATION VOLTS +/-				UNITS ST (ENG U			JT VOLTS OR SISTANCE		
	RUN NU	JMBER 1			RUN N	IUMBER 2	2		
TEMP. ENV		DATE		TEMP. EN	IV	DATE			
STIMULUS		O. UNITS JLL SCALE	OUTPUT VOLTS OR RESISTANCE	STIMULUS		D. UNITS LL SCALE	OUTPUT VOLTS OR RESISTANCE		

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE REPAIR LIMITATIONS

AMS02 – ERPD RIG	СН		ERPD				
Item Name			Part Num	ber	Serial Number		
TYPE OF REPAIR	REPAIR	LIMITATION REQIURE			MENT SOURCE		
				IDENTIFICA	ATION METHOD		
	DADT	OFDIAL /LOT	<u></u>		TIMEO		
PART NAME	PART NUMBER	SERIAL/LOT NUMBER	PHYSIC	CAL LOCATION	TIMES REPAIRED		
	TOMBER	NOMBER			TKET / III CE		

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE PRESSURE VESSEL DATA

Item Name							ERPD						
							Part Number				Serial Number		
PART NAME						PART NUM	IBER			SERIA	AL NUM	BER	
LIMITED LIFE				THRESH	OLD PRE	SSURE (PSID)				DA	ATE INS	STALLED	
PRESSURE LIMITATINS:	TP:	OP:		PP:		CYCLE LIMIT	ATIONS:	MOP	C:	•	PPC:		
	TEST NA		TVI	PE OF		PEAK	MINIMUM	TIM	ME		CUM	TOTALS	QC/OPER
FACILITY	(PROOF PI LEAK TE			SURANT	DATE	PRESSURE	PRESSURE	HRS	MIN	CYC	TIME	CYCLES	STAMP
THIS PRESSURE VES	 SSEL IS CE	RTIFIEI	D TO I	MEET AL	L CON	TRACT REQUIF	 REMENTS, UNL	 ESS O	 THER	 RWISE	NOTE	 ED, AND I	S S
ACCEPTABLE FOR F													
												_	
DATE					CONTRACTOR/SUPPLIER SIGNATURE								

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE NONFLIGHT HARDWARE / TEMPORARY INSTALLATIONS

AMS02 – ERPD RICH ERPD --
Item Name Part Number Serial Num

	AMOUL - LIVI D IVIOIT				
	Item Name	Part N	Serial Number		
STREAMER/TAG NUMBER	PART NAME	PART NUMBER	SERIAL NUMBER	PHYSICAL LOCATION	REMOVAL EVENT

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE CERTIFICATIONS

AMS	02 – ER	PD RICH			ERPD	
		ITEM N	IAME	CI NO.	PART NUMBER	SERIAL NUMBER
load, (VCN proce	proof proof ls)], shal edures, c	essure, c I be availa ertificatio	leanliness, flight, etc.). Sable for review. Certifica	Supporting documer ations and reference justifications for va	nardware meets specified re ntation [e.g. Verification Comes to supporting records incluriances from vendor specific e requirements.	npletion Notices ude qualification test
			CERTIFICATION	S INCLUDED IN TH	HIS DATA PACKAGE	
Y	N	N/A	ITEM ID		INDEX	
			А	Qualification Test	Procedures	
			В	Certification Analy	sis	
			С	Vendor-supplied [Data Sheets	
			D	Justifications for v records of approva	ariances from vendor specifi al	cations and any
			E	Certification inspe- acceptance requir	ction procedures for all designments	gn requirements and
			F		e with corresponding referer ices with stored energy (i.e.	

capacitors, batteries)

G

Log of hazardous chemical and materials with corresponding references to certification records

ALPHA MAGNETIC SPECTROMETER (AMS) HARDWARE ACCEPTANCE DATA PACKAGE MSDS DATA

Α	MS02 - ERPD RICH	ERPD				
	Item Name	Part Number	Serial Number			
CHEMICAL/COMMON NAME	PHYSICAL PROPERTIES	HAZARDS OR OTHER RISKS	SAFE HANDLING	ENGINEERING PROBLEMS		